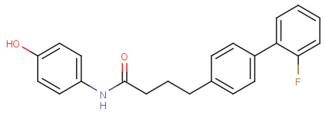
Data Sheet (Cat.No.T14988)

TargetMol
A DRUG SCREENING EXPERT

CMPD1

Chemical Properties



CAS No.:	41179-33-3
Formula:	C22H20FNO2
Molecular Weight:	349.4
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	CMPD1 is a non-ATP-competitive p38 MAPK-mediated MK2 phosphorylation inhibitor (apparent Ki (Kiapp): 330 nM).
Targets(IC_{50})	MK2 phosphorylation: （Kiapp）330 nM
In vitro	CMPD1 inhibits tubulin polymerization in glioblastoma cells [3]. CMPD1 does not inhibit p38 MAPK-mediated phosphorylation of the other two substrates, MBP and ATF2. CMPD1 induced mitotic arrest and apoptosis in U87 cells [1].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.862 mL	14.31 mL	28.62 mL
5 mM	0.572 mL	2.862 mL	5.724 mL
10 mM	0.286 mL	1.431 mL	2.862 mL
50 mM	0.057 mL	0.286 mL	0.572 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Gurgis F, et al. Cytotoxic activity of the MK2 inhibitor CMPD1 in glioblastoma cells is independent of MK2. Cell Death Discov. 2015 Sep 7;1:15028.
2. Davidson W, er al. Discovery and characterization of a substrate selective p38alpha inhibitor. Biochemistry. 2004 Sep 21;43(37):11658-71.
3. Phoa AF, et al. Pharmacology of novel small-molecule tubulin inhibitors in glioblastoma cells with enhanced EGFR signalling. Biochem Pharmacol. 2015 Dec 15;98(4):587-601.

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